Reference to Pending Applications

This is application is a divisional application taken from pending United States Patent Application Serial No. 09/925,988 filed on August 09, 2001 entitled AN OBTURATOR SYSTEM FOR FILING A ROOT CANAL AND METHOD OF USE THEREOF (to be issued on November 11, 2003 into Patent No. 6,644,972) which is a continuation of U.S. Patent Application Serial No. 09/481,611 filed January 12, 2000 (issued on November 6, 2001 into Patent No. 6,312,261).

IN THE CLAIMS:

Please delete Claims 1-22 of the original application and replace with new Claims 1-16 as shown below:

- 1 1. A method of filling an endodontically prepared root canal of a tooth comprising:
- 2 applying filler material to the external surface of a distal portion of an elongated
- 3 structural shaft, the shaft having sufficient rigidity to serve as a vehicle for carrying said
- 4 filler material into lowermost portions of a root canal;
- 5 inserting said proximal portion of said shaft having said filler material thereon
- 6 into the root canal;
- 7 applying sound energy to said shaft at a frequency sufficiently high to cause said
- 8 shaft to vibrate at a rate that thereby the surface tension of said filler material is
- 9 substantially decreased allowing said shaft to be removed leaving said filler material in
- the root canal.
- 1 2. Method according to Claim 1 including:
- 2 affixing a signal generating temperature sensor to said shaft and using a signal

- generated by said temperature sensor to control said application of sound energy to said
 shaft.
- 1 3. The method according to Claim 1 wherein said shaft is of metal.
- 1 4. The method according to Claim 1 wherein said shaft is of plastic or fiberglass.
- 1 5. The method according to Claim 1 wherein said step of applying sound energy to said shaft is accomplished by employing sonic energy.
- 1 6. The method according to Claim 1 wherein said step of applying sound energy to said
 2 shaft is accomplished by employing piezoelectric energy.
- An obturator system for filling an endodontically prepared tooth root canal comprising:
 an elongated shaft having a proximal portion and a smooth distal portion;

filler material applied onto said shaft distal portion, said shaft having sufficient rigidity to serve as a vehicle for carrying said filler material thereon into the lowermost portions of a tooth root canal; and

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a source of sound energy that is applied to said shaft at a frequency sufficiently high to cause said shaft to vibrate at a rate that thereby the surface tension of said filler material is substantially decreased allowing said shaft to be removed leaving said filler material in the root canal.

1 8. An obturator system according to Claim 7 wherein said source of sound energy is a source of sonic energy.

- 9. An obturator system according to Claim 7 wherein said source of sound energy employs 1 2 piezoelectric energy. 1 10. An obturator system according to Claim 7 wherein said source of sound energy is a laser. An obturator system according to Claim 7 wherein said coil is telescopically removable 1 11. 2 from said shaft. 12. 1 An obturator system according to Claim 7 including a signal generating temperature
- 2 sensor affixed to said shaft.
- 2 circuitry including said temperature sensor by which said source of sound energy 3 is controlled in response to the temperature of said shaft.
- 1 14. A method of filling an endodontically prepared root canal of a tooth comprising:

An obturator system according to Claim 12 including:

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- applying filler material to the external surface of a distal portion of an elongated structural shaft having sufficient rigidity to serve as a vehicle for carrying said filler material into lowermost portions of a root canal;
- 5 inserting said proximal portion of said shaft having said filler material thereon 6 into the root canal;
- applying energy to shaft of sufficient intensity to decrease the surface tension of 7 8 said filler material; and removing said shaft leaving said filler material in the root canal.

- 1 15. The method of filling an endodontically prepared root canal according to Claim 14
- wherein the step of applying energy to said shaft is accomplished by the application of
- sonic energy.
- 1 16. The method of filling an endodontically prepared root canal according to Claim 14
- wherein the step of applying energy to said shaft is accomplished by the application of
- 3 piezoelectric energy.